



ARNOS VALE MODERN CITY DATA COLLECTION

Resilient Urban Development of the Modern
City and Kingstown

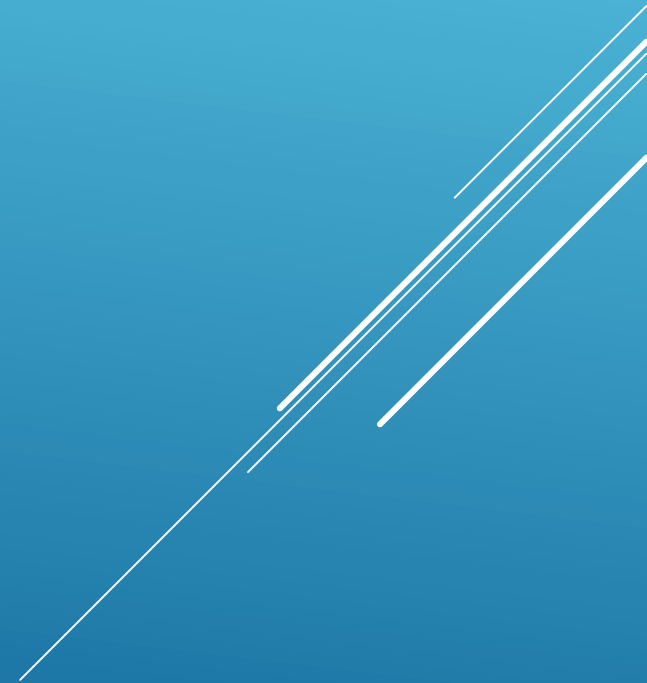
AVAILABLE DATA

- ▶ **PROPERTY OWNERSHIP**
 - ▶ **HYDROLOGICAL / HYDRAULIC AND MARINE CONDITIONS**
 - ▶ **GEOTECHNICAL SURVEYS**
 - ▶ **TRAFFIC STUDIES AND CONCEPT ROAD NETWORK OPTIONS**
- 

AVAILABLE DATA

- ▶ **PRELIMINARY VISIONING AND LAYOUT DESIGNS**
 - ▶ **MISCELLANEOUS DATA**
 - ▶ **BATHYMETRIC SURVEYS**
 - ▶ **TOPOGRAPHICAL SURVEYS**
 - ▶ **LOCAL AREA PLAN**
 - ▶ **SECTIONAL ESIA REPORT**
- 
- Decorative white lines consisting of several parallel diagonal strokes in the bottom right corner of the slide.

THE SITE AND PROPERTY OWNERSHIP



Project Limits

Write a description for your map.

Legend

- Arnos Vale
- Feature 1
- Feature 2

HOSPITAL SITE

Arnos Vale

Google earth

© 2018 Google
Image © 2018 CNES / Airbus

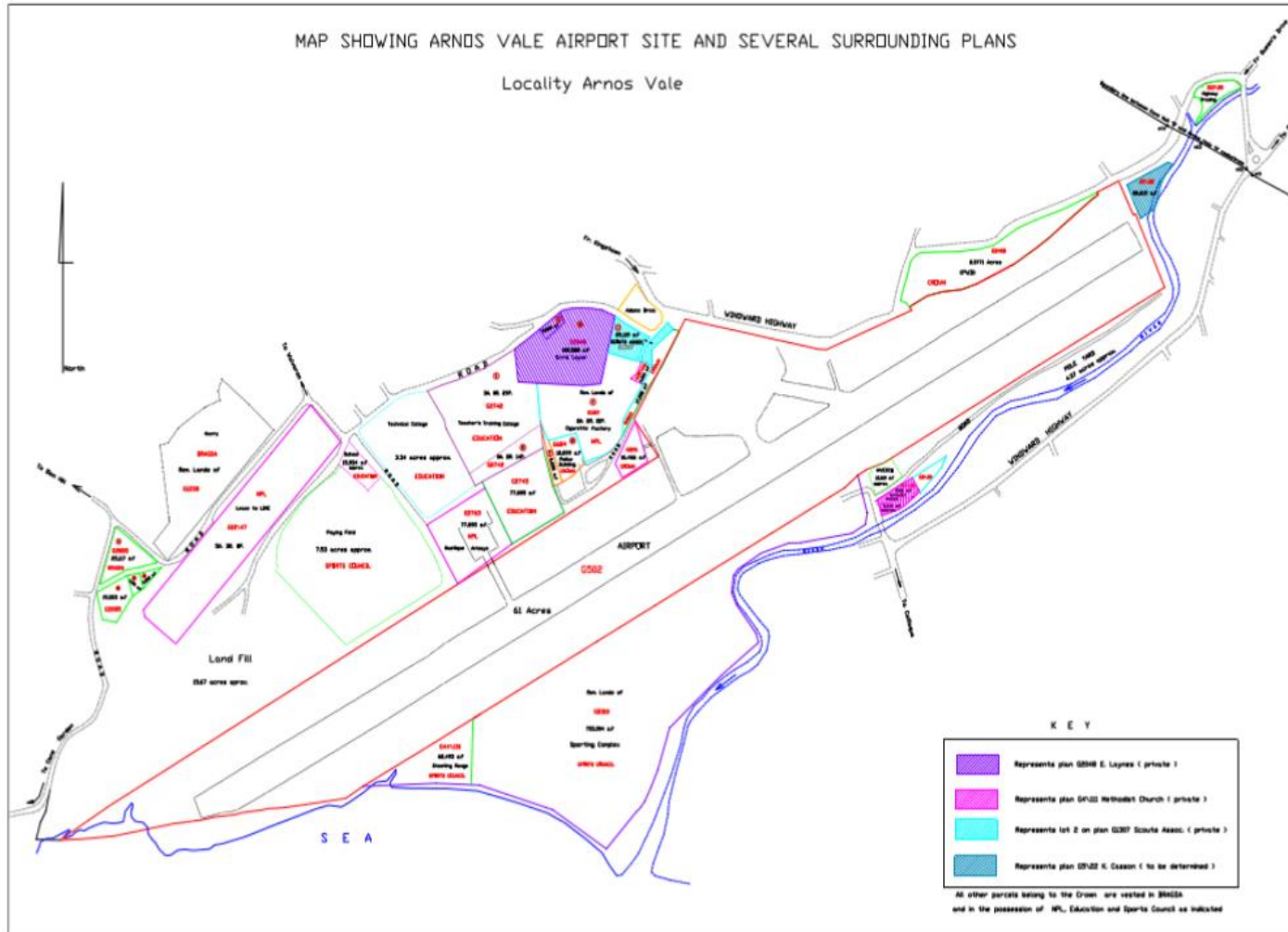


1000 ft



MAP SHOWING ARNOS VALE AIRPORT SITE AND SEVERAL SURROUNDING PLANS

Locality Arnos Vale



HYDROLOGICAL / HYDRAULIC AND MARINE CONDITIONS



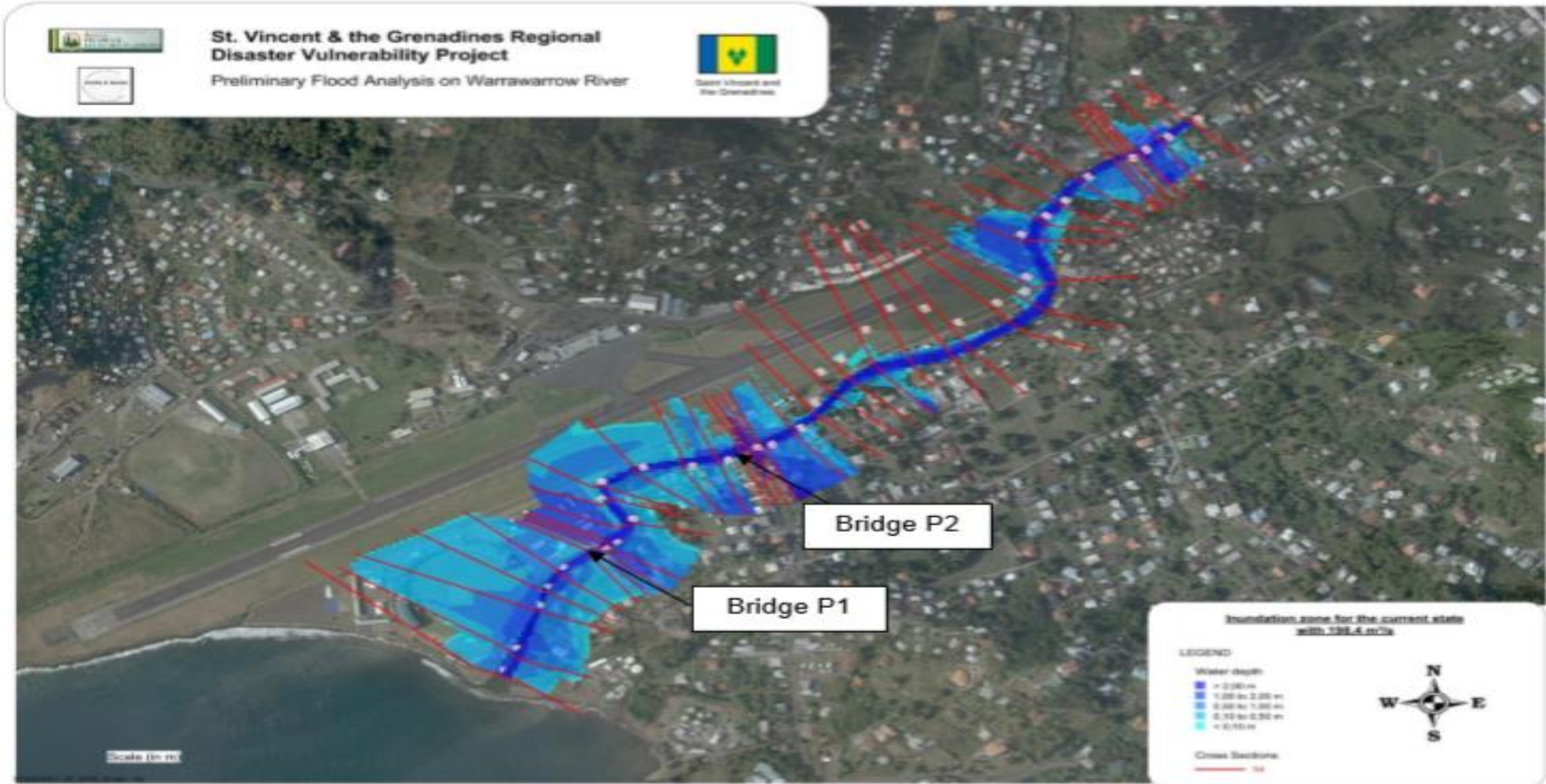


Figure 22: Inundation map for 100-year Warrawarrow river flow in the current state

WW River Overflow Channel

Write a description for your map.

Legend

- Feature 1

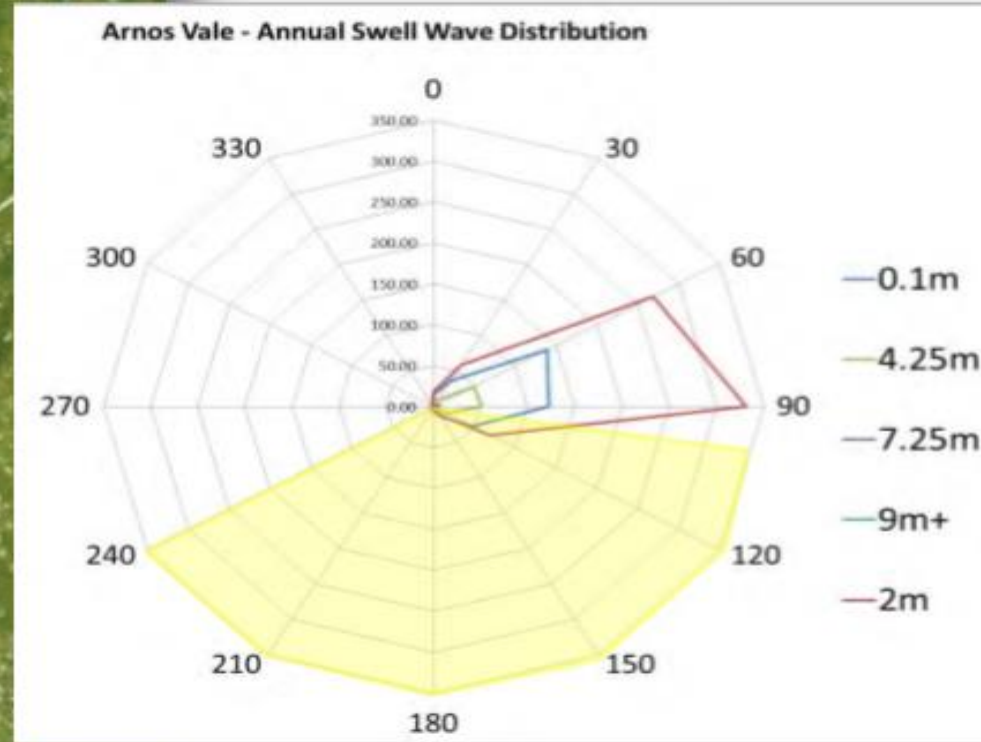
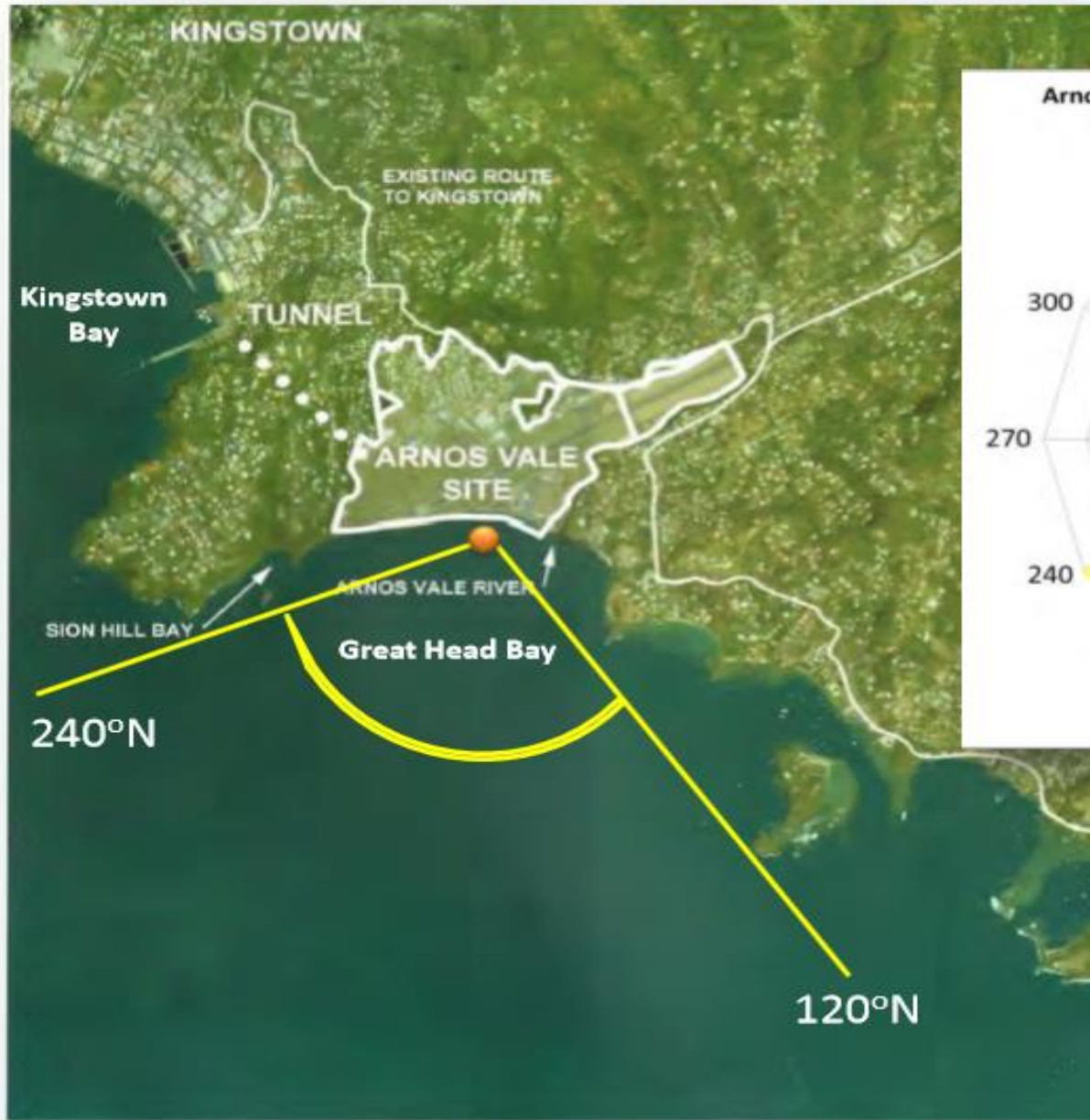


Google earth

Image © 2016 CNES / Astrium
© 2016 Google

900 ft

ARNOS VALE – METOCEAN CONDITIONS



• Annual frequency of swell waves of 2m and above approaching Great-head Bay estimated at 111 days per annum.



GEOTECHNICAL CONDITIONS





Figure 6: Profile Sections Layout

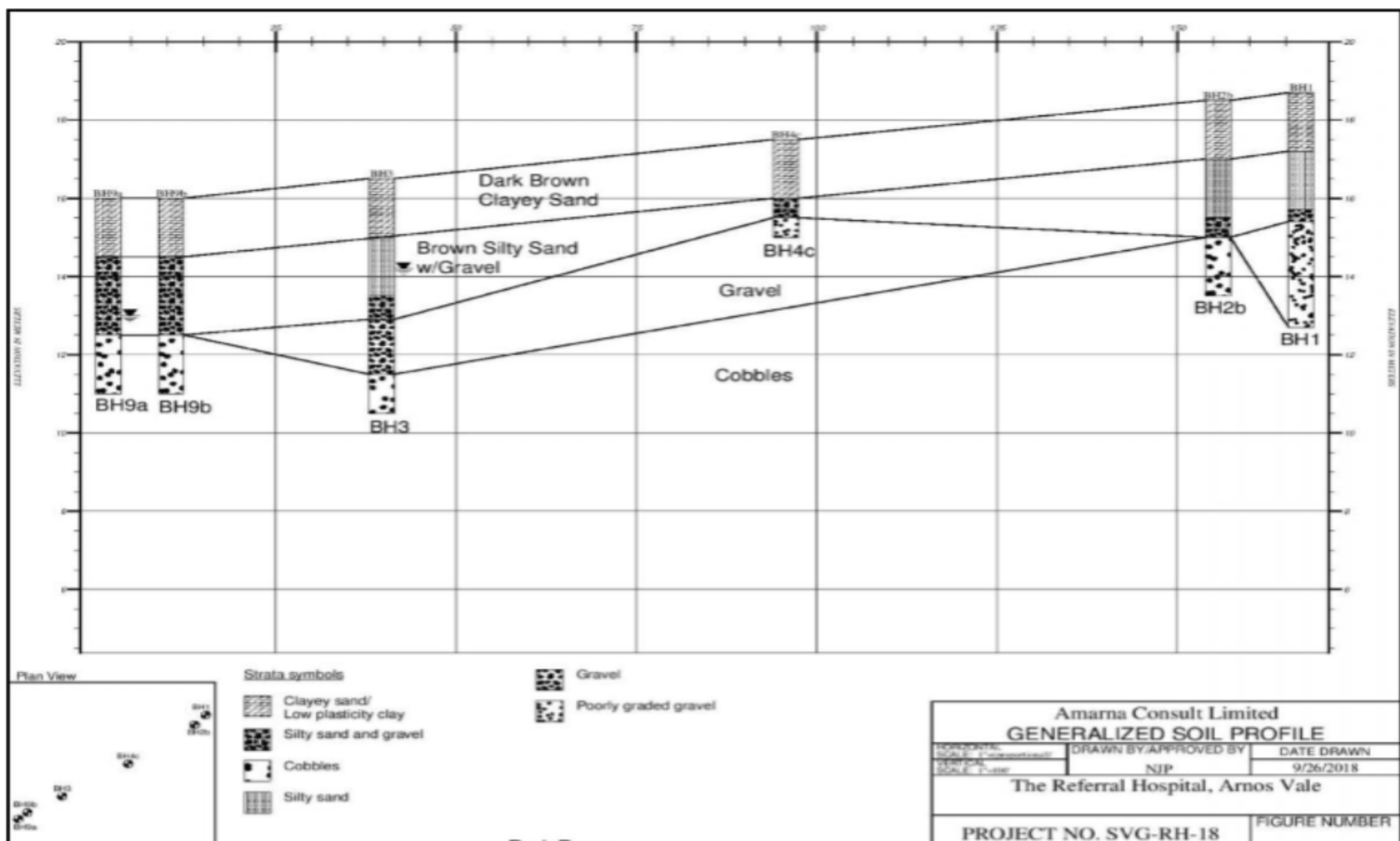


Figure 7: Geological Profile 1 across Boreholes 1, 2b, 3, 4c, 9a & 9b

TRAFFIC STUDIES

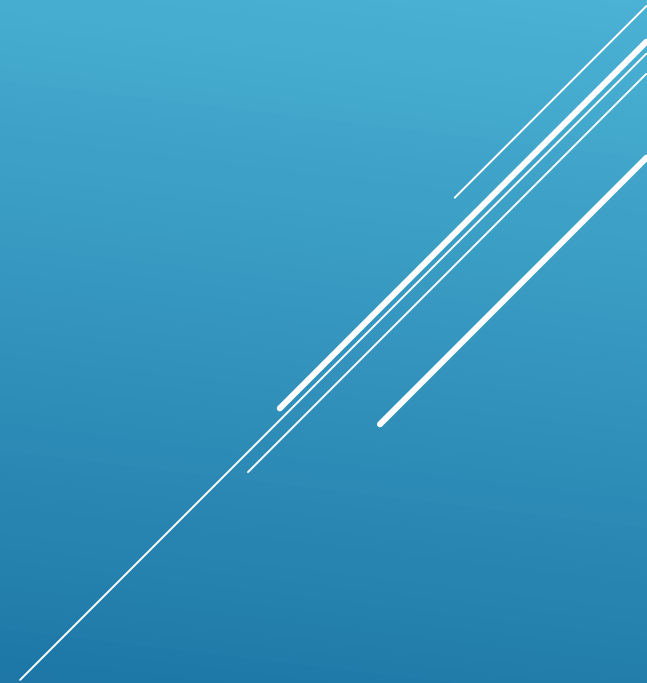




Exhibit 8 Heat Map: Delays during PM Peak

The afternoon peak sees a reversal of the morning peak pattern given the demand in the opposite direction.



ROUTE 1

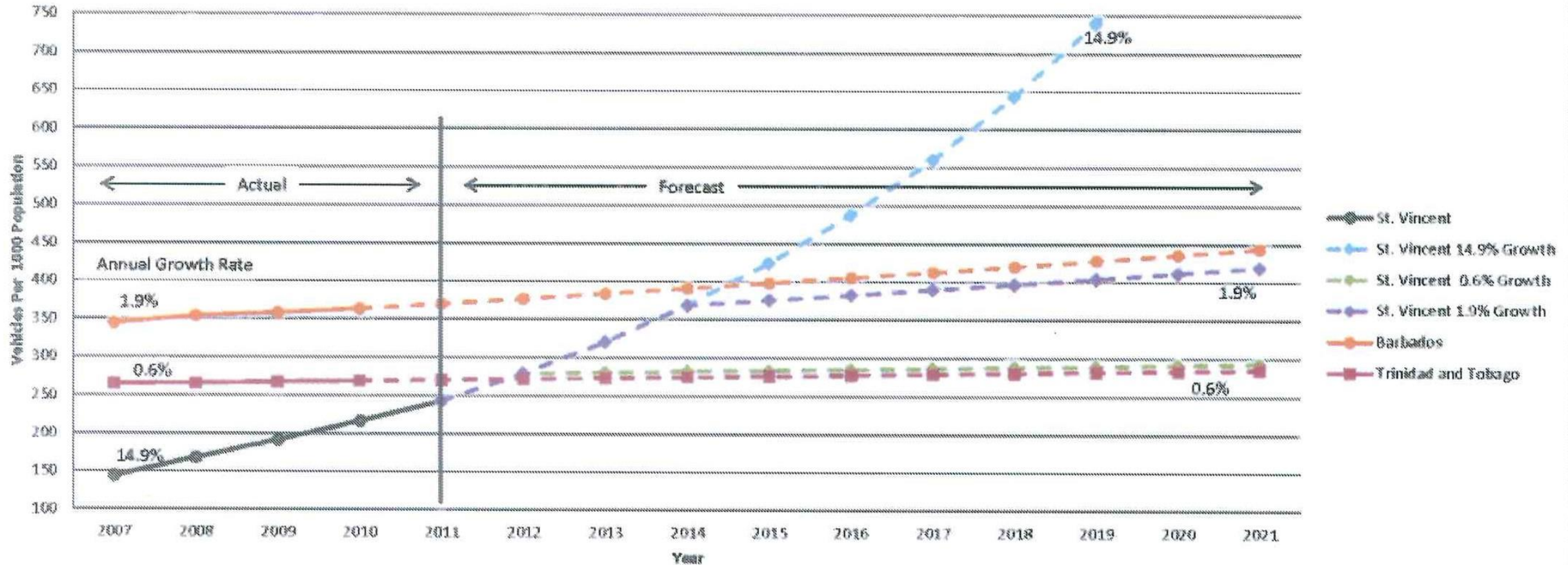
ROUTE 2

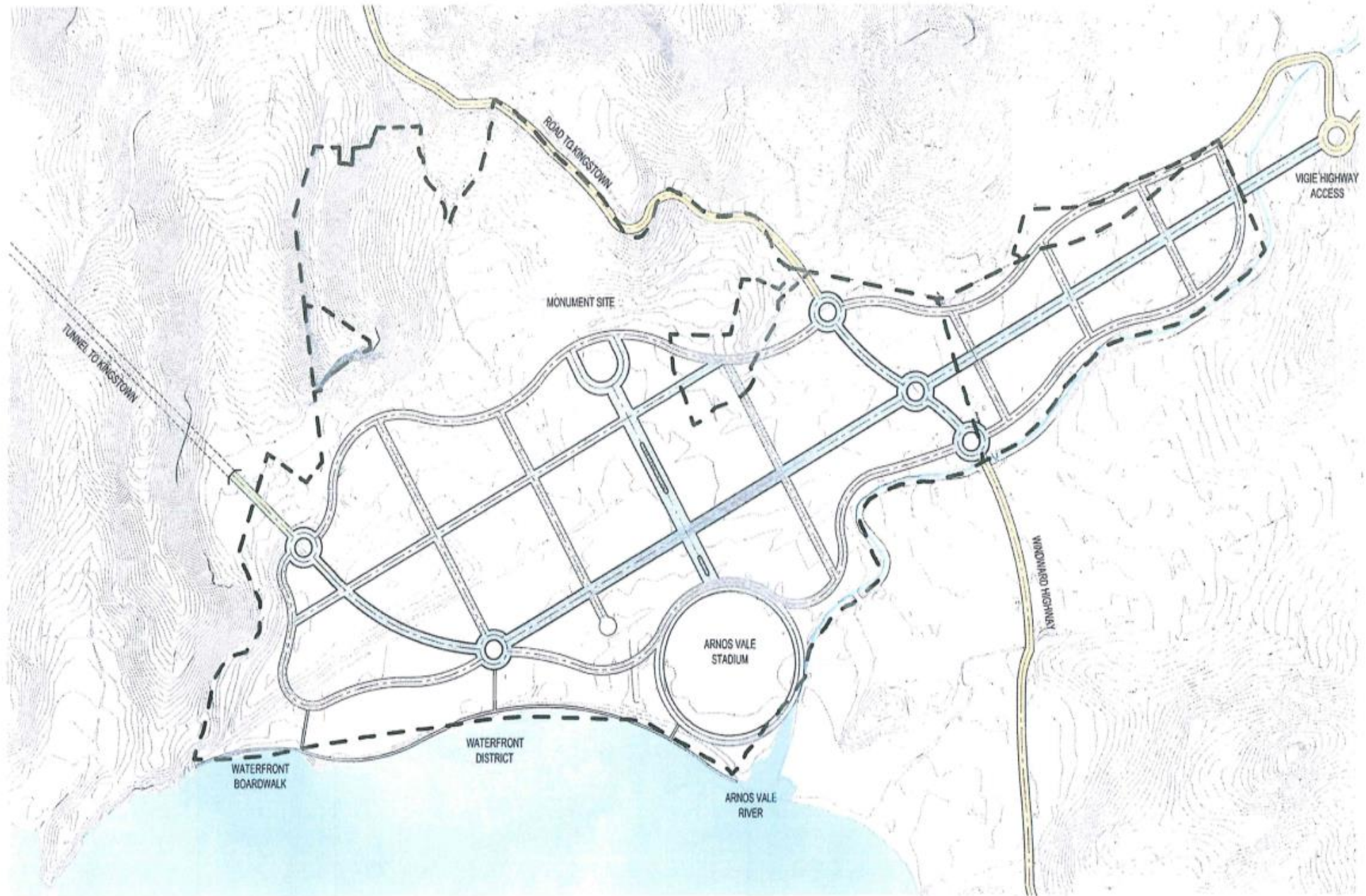
ROUTE 3

Arnos Vale



Figure 3: Growth Forecasts for Registered Vehicles per 1,000 Population in St. Vincent and the Grenadines





MOVEMENT SYSTEM

1:5000

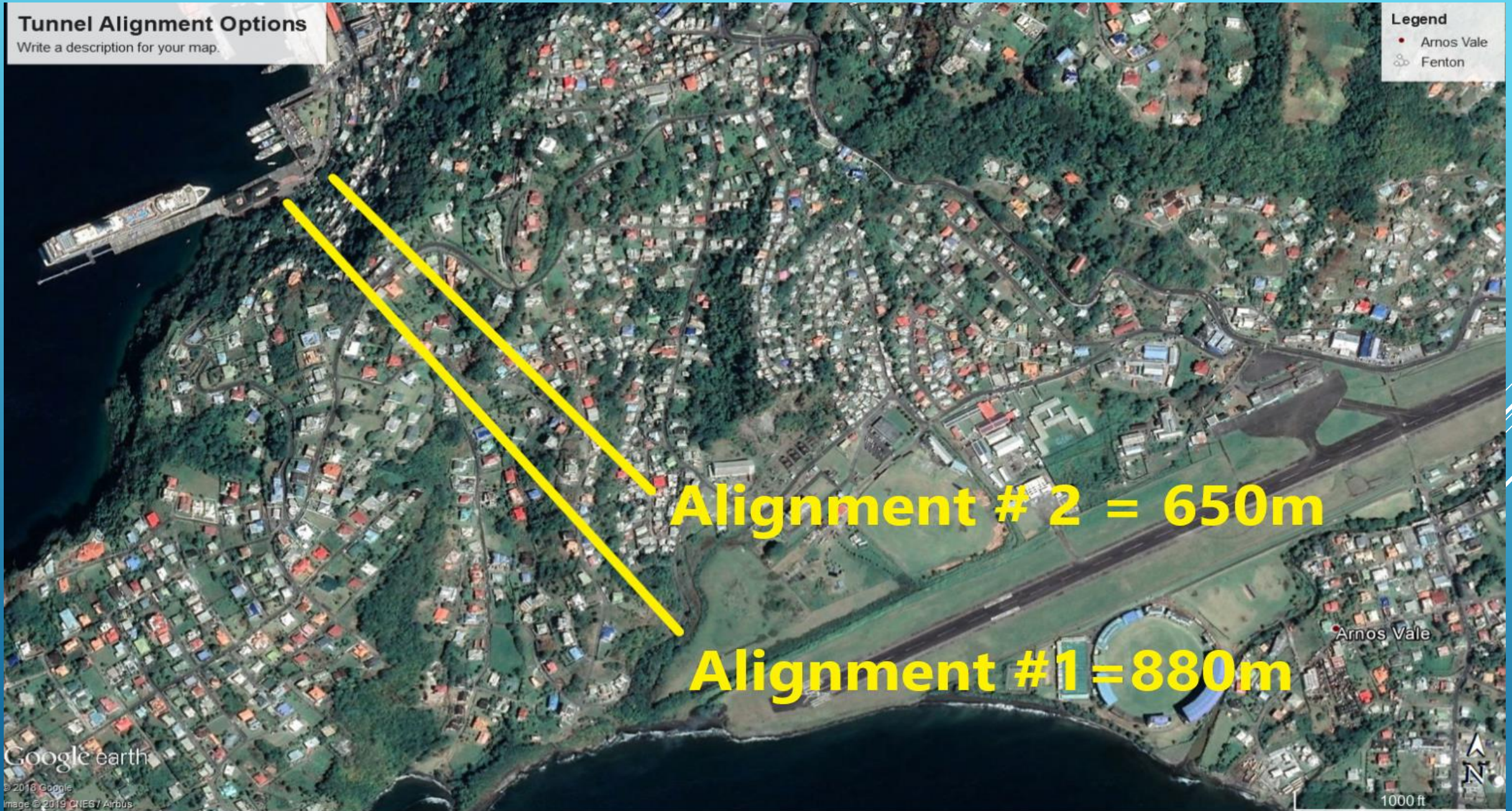
- PRIME ROAD
- MINOR ROAD
- PERIMETER ROAD
- CONTEXT ROADS

Tunnel Alignment Options

Write a description for your map.

Legend

- Arnos Vale
- 📍 Fenton



Alignment # 2 = 650m

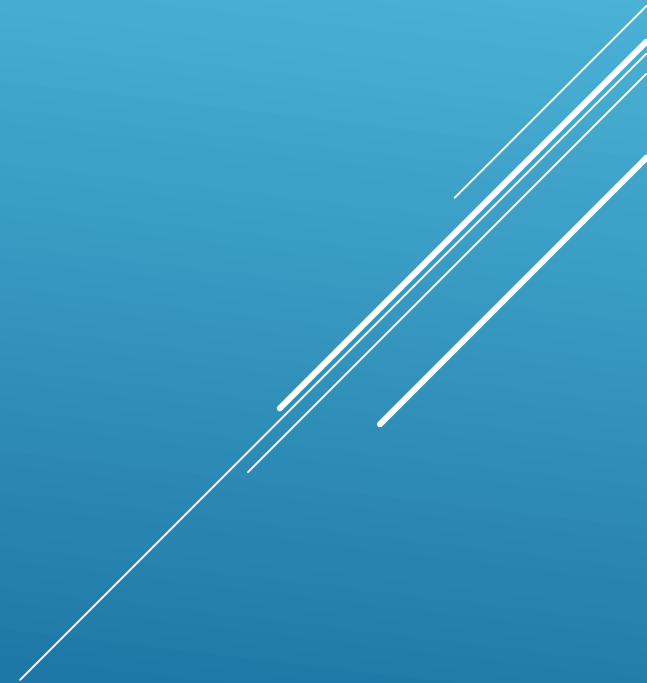
Alignment #1 = 880m

Google earth

© 2018 Google
Image © 2019 CNES/ Airbus

1000 ft

PRELIMINARY VISIONING AND LAYOUTS





VISIONING WORKSHOP



- ▶ **STRENGTHS:** strategic location, flat, scenic, stateland, established communities, serviced land, existing sport and educational facilities, proximity to city centre, lack of mass transit system
- ▶ **WEAKNESSES:** landfill, informal settlements, drainage/flood plain, no legal area plan, hemmed in site, traffic congestion to city centre, limited local planning capacity
- ▶ **OPPORTUNITIES:** *more tourism thanks to new airport, plan for new tunnel to city port*
- ▶ **THREATS:** climate change



2. SWOT ANALYSIS_MAIN ELEMENTS

OFFENSIVE STRATEGY E.G. SPECIAL ENTERPRISE ZONE WITH ONE MASTERPLAN, ONE THEME, ONE INVESTOR/DEVELOPER, ONE ALL_IN DEVELOPMENT	DEFENSIVE STRATEGY E.G. KEEP THE SITE UNTOUCHED AS A STRATEGIC RESERVE FOR FUTURE CITY EXPANSION
TRANSFORMATIVE STRATEGY E.G. A MORE INCREMENTAL, RETRO_FITTING REDEVELOPMENT_TAKING USING THE AIRPORT HERITAGE	SURVIVAL STRATEGY E.G. FOCUS ON STORMWATER AND SEA_LEVEL RISE PROTECTION SURVIVAL STRATEGY

3. SWOT_STRATEGIES: EXAMPLES

SCALE 1/2 WAY

SEC PARK

WASTE WATER

WATER TREATMENT

TRAIL

GREEN HOUSE

ACADEM REP. HOSE



Tunnel

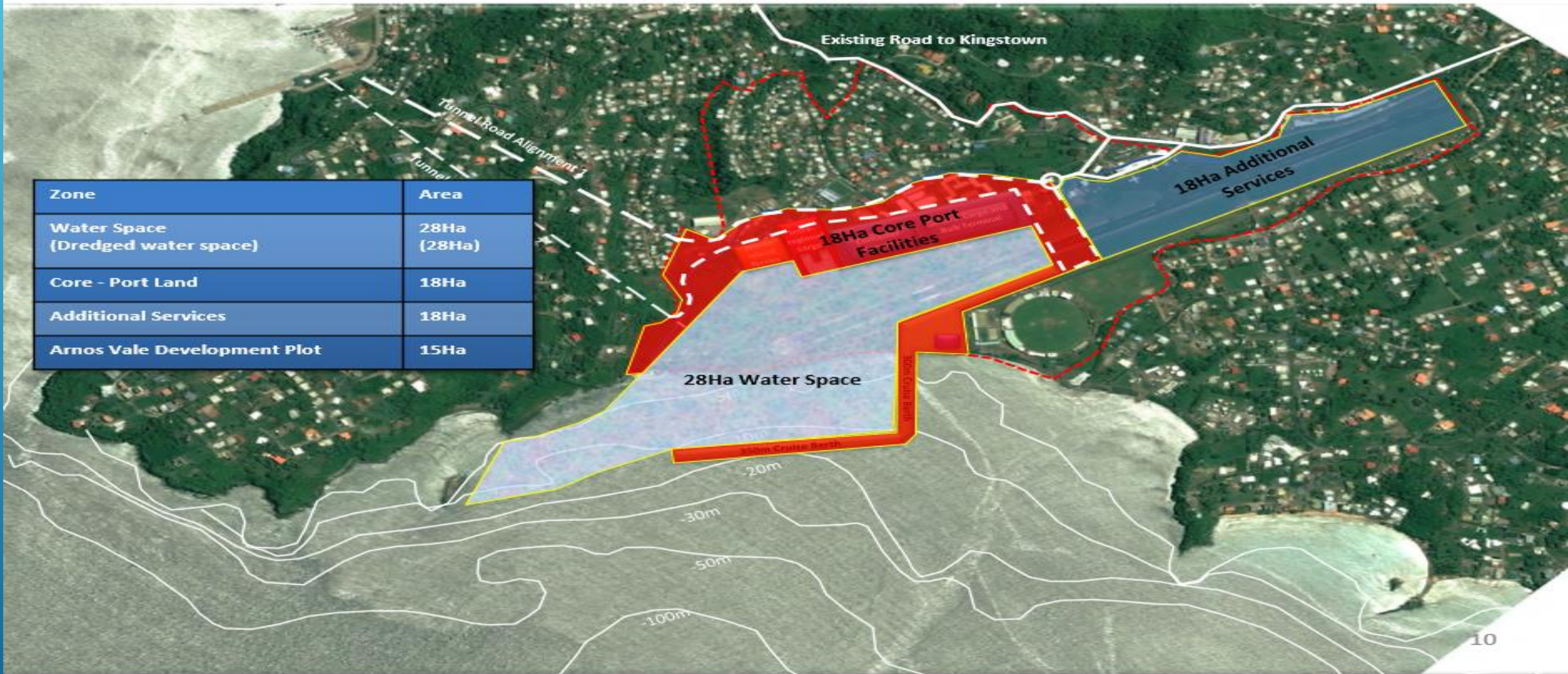




MIXED USE
EXTENSION OF
KINGSTON

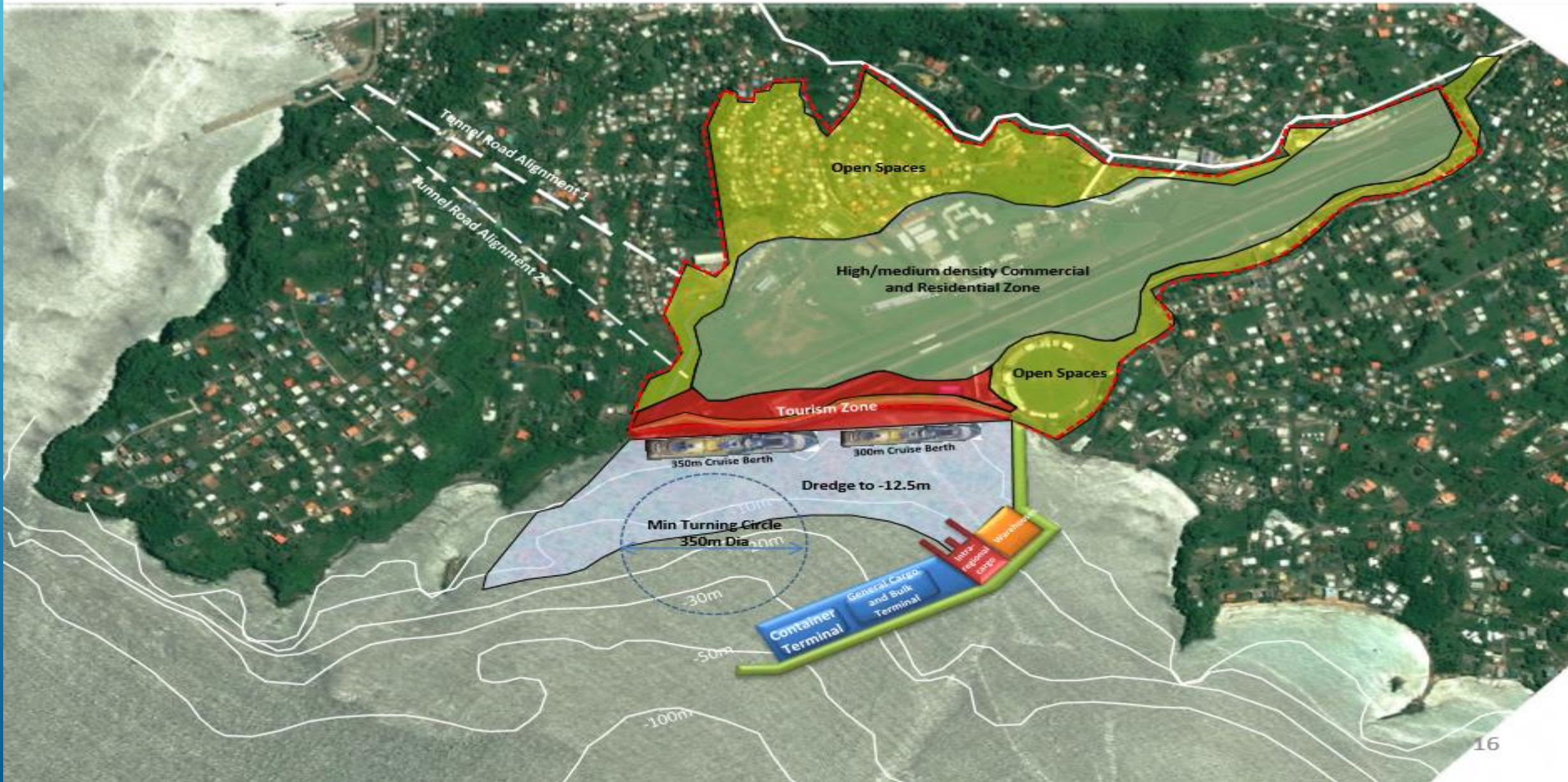
TABLE A

MASTER PLAN OPTION F1 – LAND AND WATER SPACE



MASTER PLAN OPTION F1 – DIVERTED FACILITIES

MASTER PLAN OPTION F2



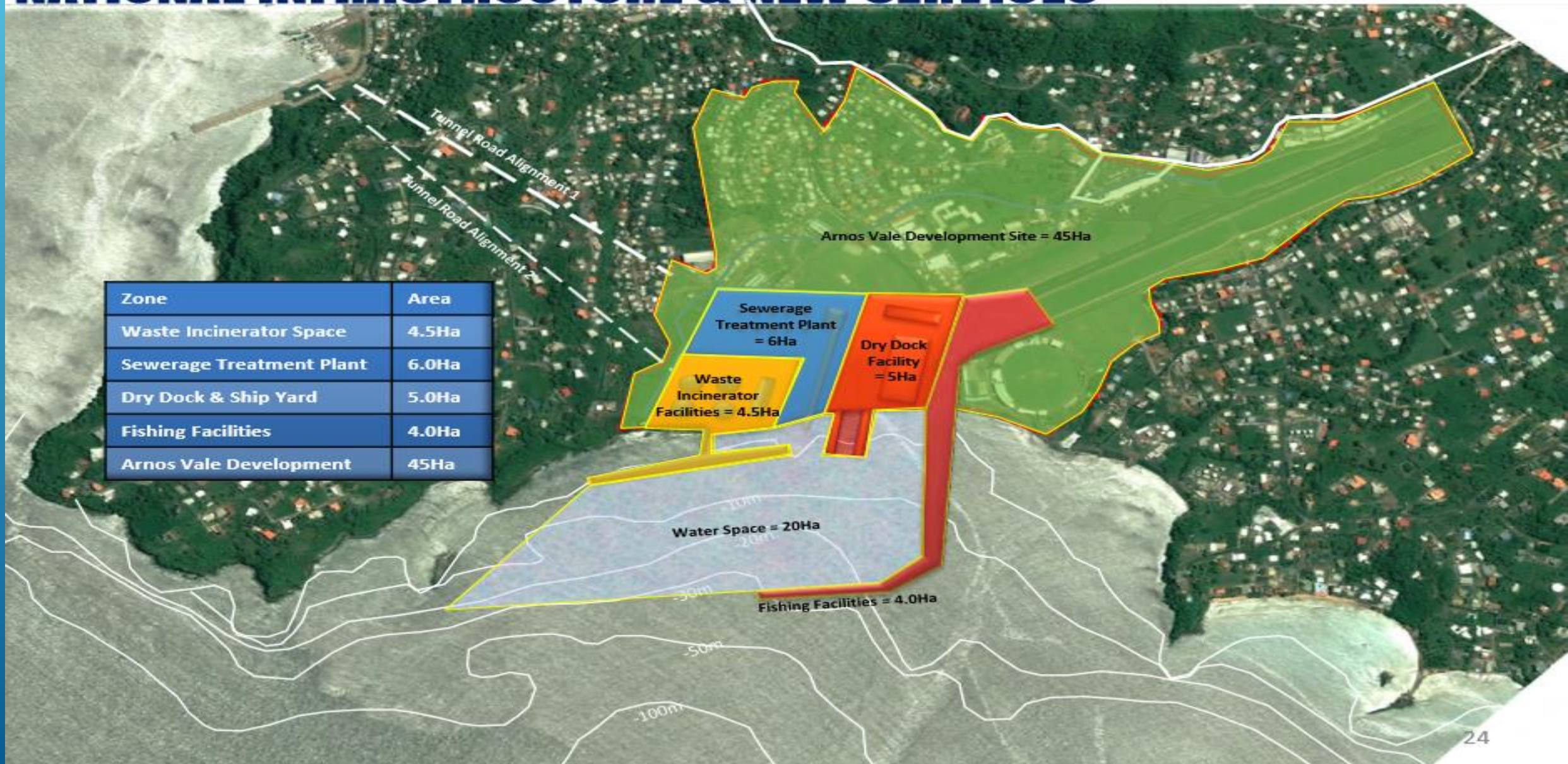
MASTERPLAN OPTION G – TOURISM AND LEISURE



MASTER PLAN OPTION 'H'

NATIONAL INFRASTRUCTURE & NEW SERVICES

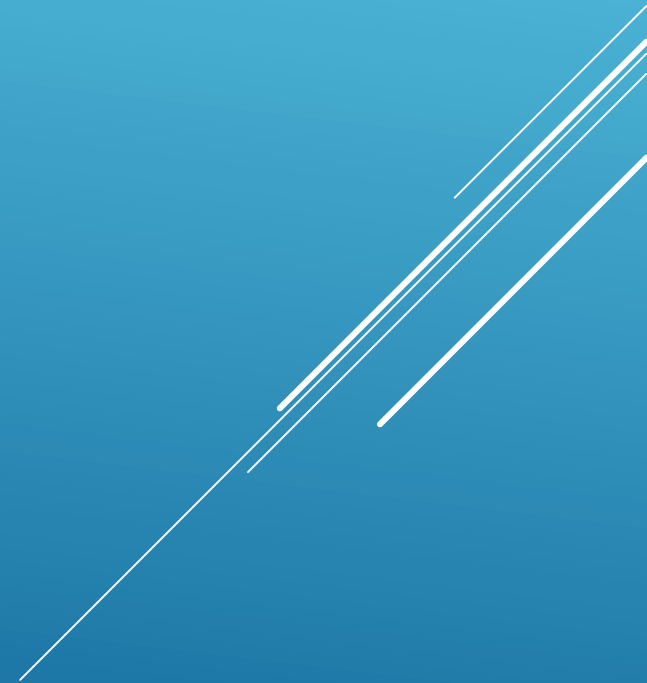
Zone	Area
Waste Incinerator Space	4.5Ha
Sewerage Treatment Plant	6.0Ha
Dry Dock & Ship Yard	5.0Ha
Fishing Facilities	4.0Ha
Arnos Vale Development	45Ha







MISCELLANEOUS DATA



- ▶ **BATHYMETRIC SURVEYS**
 - ▶ **TOPOGRAPHICAL SURVEYS**
 - ▶ **LOCAL AREA PLAN**
 - ▶ **SECTIONAL ESIA REPORT**
 - ▶ **ARNOS VALE DEVELOPMENT CORPORATION**
- 

END

